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# Product Data Sheet

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## Spark YG™ 581 anti-mouse CD16

**Catalog # / Size:** 1390090 / 100 µg  
1390085 / 25 µg

**Clone:** S17014E

**Isotype:** Rat IgG2a, κ

**Immunogen:** Mouse CD16 - transfected cells

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Spark YG™ 581 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

**Concentration:** 0.5 mg/mL

□ C57BL/6 mouse splenocytes were stained with NK1.1 Pacific Blue™ and anti-mouse CD16 (clone S17014E) (left) Spark YG™ 581 or NK1.1 Pacific Blue™ only (right).

## Applications:

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Spark YG™ 581 has a maximum excitation of 562 nm and a maximum emission of 581 nm.

**Application Notes:** Anti-mouse CD16/32 clones 93 and 2.4G2 both block clone S17014E staining.

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**Description:** CD16 also known as Fcγ3 is a 50-65 kD type I transmembrane protein, member of the Fc gamma receptor family and Ig superfamily. CD16 is expressed on most myeloid cells including monocytes, macrophages, dendritic cells, and is also expressed by NK cells and NKT cells. CD16 is involved in cell activation, phagocytosis, and antibody-dependent cell-mediated cytotoxicity (ADCC); its ligands are IgG1, IgG2a and IgG2b.

**Antigen References:**

1. Nimmerjahn F1 & Ravetch JV. 2008. *Nat Rev Immunol*. 8(1):34-47.
2. Biburger M & Nimmerjahn F. 2012. *Immunol Lett*. 143(1):53-9.
3. Arase N, et al. 2003. *J Immunol*. 170:3054.